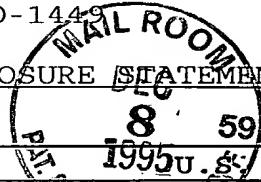


FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

Atty Docket
0652.1350000Serial No.
08/249,671Applicant
Hauptmann et al.Filing Date
May 26, 1994Group 1812
To Be Assigned

1995 U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Sub-class	Filing Date
AA	AA1 5,196,323	3/23/93	Bodo et al.	435	69.51	6/12/91
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FOREIGN PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Country	Class	Sub-class	Trans-lation
AL	AL1 0 115 613	08/15/84	Europe			Abstract
AM	AM1 WO 89/03225	04/20/89	PCT			Yes No
AN						Yes No
AO						Yes No
AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	1	Adolf G.R., Monoclonal Antibodies and Enzyme Immunoassays Specific for Human Interferon (INF) ω 1: Evidence that IFN- ω 1 is a Component of Human Leukocyte IFN, <i>Virology</i> 175:410-417 (1990)
AS	1	Beltz et al., Isolation of Multigene Families and Determination of Homologies by Filter Hybridization Methods, <i>Meth. Enzymol.</i> 100:266-285 (1983)
AT	1	Bodo & Maurer-Fogy, Molecular Species of Recombinant Human Interferon Alpha 2 Detected in Affinity Purified Preparations. In: <i>The Biology of the Interferon System</i> (ed. Stewart, W.E., II Schellekens, H.), Elsevier Scientific Publishing Co., Amsterdam, pp. 59-64 (1985)

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DAVID L FITZGERALD
PATENT EXAMINER

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EXAMINER: Initial if difference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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Examiner Initial	Document Number	Date	Name	Class	Sub-class	Filing Date
Initials: RRC	AA					
Initials: RRC	AB 59					
Initials: RRC	AC 44					
Initials: RRC	AD 61					
Initials: RRC	AE					
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Initials: RRC	AH					
Initials: RRC	AI					
Initials: RRC	AJ					
Initials: RRC	AK					

FOREIGN PATENT DOCUMENTS

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	AL					Yes No
	AM					Yes No
	AN					Yes No
	AO					Yes No
	AP					Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

Initials: RRC	AR	2	Breitling et al., Secretory expression in <i>Escherichia coli</i> and <i>Bacillus subtilis</i> of human interferon α genes directed by staphylokinase signals, <i>Mol. Gen. Genet.</i> 217:384-391 (1989)
Initials: RRC	AS	2	Chang et al., Nucleotide sequence of the alkaline phosphatase gene of <i>Escherichia coli</i> , <i>Gene</i> 44:121-125 (1986)
Initials: RRC	AT	2	Derwent World Patent Index, English language abstract of European Patent 0 115 613.

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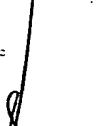
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AL						Yes No
AM						Yes No
AN						Yes No
AO						Yes No
AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	3	Dworkin-Rastl et al., Construction of expression plasmids producing high levels of human leukocyte-type interferon in <i>Escherichia coli</i> , <i>Gene</i> 21:237-248 (1983)
	AS	3	Fuh et al., The Human Growth Hormone Receptor, <i>J. Biol. Chem.</i> 265(6):3111-3115 (1990)
	AT	3	Goeddel et al., Human leukocyte interferon produced by <i>E. coli</i> is biologically active, <i>Nature</i> 287:411-416 (1980)

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0652.1350000Serial No.
08/249,671Applicant
Hauptmann et al.Filing Date
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To Be AssignedU.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Sub-class	Filing Date
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FOREIGN PATENT DOCUMENTS

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AL						Yes No
AM						Yes No
AN						Yes No
AO						Yes No
AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>PF</i>	AR	4	Goeddel et al., The structure of eight distinct cloned human leukocyte interferon cDNAs, <i>Nature</i> 290:20-26 (1981)
	AS	4	Hauptmann & Swetly, A novel class of human type I interferons, <i>Nucl. Acid Res.</i> 13(13):4739-4749 (1985)
<i>PF</i>	AT	4	Ho et al., Site-directed mutagenesis by overlap extension using the polymerase chain reaction, <i>Gene</i> 77:51-59 (1989)

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Date Considered

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FORM PTO-1449		Atty Docket 0652.1350000	Serial No. 08/249,671
<u>INFORMATION DISCLOSURE STATEMENT</u>		Applicant Hauptmann et al.	
		Filing Date May 26, 1994	Group 1812 To Be Assigned

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FOREIGN PATENT DOCUMENTS

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AL						Yes No
AM						Yes No
AN						Yes No
AO						Yes No
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<i>PF</i>	AR	5	Kafatos et al., Determination of nucleic acid sequence homologies and relative concentrations by a dot hybridization procedure, <i>Nucl. Acids Res.</i> 7(6):1541-1552 (1979)
	AS	5	Lee et al., Characterization of Gene Encoding Heat-Stable Toxin II and Preliminary Molecular Epidemiological Studies of Enterotoxigenic <i>Escherichia coli</i> Heat-Stable Toxin II Producers, <i>Infection and Immunity</i> 42(1):264-268 (1983)
	AT	5	Mantel et al., The nucleotide sequence of cloned human leukocyte interferon cDNA, <i>Gene</i> 10:1-10 (1980)

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EXAMINER: Initial if ~~re~~GROUP 1800 considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>PF</i>	AR	6	Owen & Pitcher, Current Methods for Estimating DNA Base Composition and Levels of DNA-DNA Hybridization, <i>Chemical Methods in Bacterial Systematics</i> , pp.67-93 (1985)
	AS	6	Picken et al., Nucleotide Sequence of the Gene for Heat-Stable Enterotoxin II of <i>Escherichia coli</i> , <i>Infection and Immunity</i> 42(1):269-275 (1983)
	AT	6	Shuttleworth et al., Sequence of the gene for alkaline phosphatase from <i>Escherichia coli</i> JM83, <i>Nucl. Acid Res.</i> 14(2):8689 (1986)

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AL						Yes No
AM						Yes No
AN						Yes No
AO						Yes No
AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>DR</i>	AR	7	Streuli et al. At Least Three Human Type α Interferons: Structure of α_2 , <i>Science</i> 209:1343-1347 (1980)
	AS	7	Thatcher & Panayotatos, Purification of Recombinant Human IFN- α_2 , <i>Methods Enzymol.</i> 119:166-177 (1986)
	AT	7	Twigg and Sherratt, Trans-complementable copy-number mutants of plasmid ColE1, <i>Nature</i> 283:216-218 (1980)

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